

DRILL HOLES

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PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of School Zone Hazard Identification Beacons for Calvert High School along MD 402 (Dares Beach Rd) in Calvert County. MD 402 (Dares Beach Rd) is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

- The Hazard Identification Beacons shall operate during school hours.
- A full-traffic-actuated, eight-phase controller with all necessary equipment housed in a size "G" pole-mounted cabinet shall be installed at this intersection. SHA Forces shall install phone drop equipment into the cabinet.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- Upon completion of this project, the Contractor shall notify Mr. Robert Snyder at (410) 787-7631 to arrange for the phone line installation. The Contractor is to provide Mr. Robert Snyder with the nearest street address, zip code and phone number.

The contact persons for District #5 are as follows:

Ms. Kim Tran
Assistant District Engineer - Traffic
Phone: (410) 841-1003

Mr. Charles George
Assistant District Engineer - Maintenance
Phone: (410) 841-1002

Mr. John Mays
Assistant District Engineer - Utility
Phone: (410) 841-1005

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Ed Rodenhizer
Signal Shop
410-787-7652

Sonny Bailey
Sign Shop
410-787-7670

The power company representative is:

Mr. Bob Baylor
SMECO - Calvert County
Phone: 410 535-4400 ext9411

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY
9037	Cabinet "G" type - pole mount	2 EA
9042	Controller ASC 2 with telemetry	2 EA
9570	Sheet aluminum signs to consist of: (ground mount)	18 SF
	R2-1 "SPEED LIMIT 40" sign, (24" x 36").	2 EA
	S4-4(1) "FINES DOUBLE" sign, (15" x 30").	2 EA
9571	Sheet aluminum signs to consist of: (mast arm or pole mount)	24 SF
	S1-1 "SCHOOL (Symbolic)" sign, (36" x 36").	2 EA
	S4-3 "SCHOOL" sign, (12" x 36").	2 EA

EQUIPMENT LIST

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

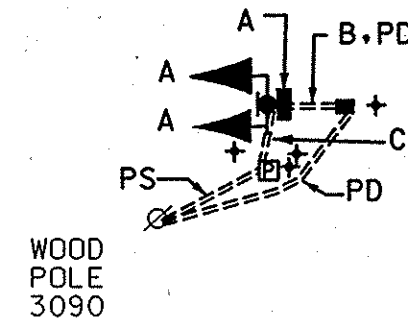
ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
2002	Test Pit Excavation	4 C.Y.
5007	Heat applied permanent preformed thermoplastic pavement marking letter. (S-C-H-O-O-L)	12 EA
8001	Furnish and install concrete for signal foundation.	2 C.Y.
8018	Furnish and install breakaway pedestal pole (14').	2 EA
8019	Remove and dispose of existing material and equipment per assignment.	1 EA
8030	Furnish and install wood sign supports 4" x 6".	32 L.F.
8031	Furnish and install No. 6 AWG stranded bare copper ground wire.	45 L.F.
8039	Furnish and install 2" schedule 80 rigid polyvinyl chloride - trenched.	105 L.F.
8040	Furnish and install 3" schedule 80 rigid polyvinyl chloride - trenched.	25 L.F.
8046	Metered service pedestal.	2 EA
8048	Furnish and install electrical cable 1-conductor No. 4 AWG THHN/THWN.	180 L.F.
8054	Furnish and install electrical handhole.	2 EA
8056	Install ground mounted sign.	18 S.F.
8057	Install overhead sign.	24 S.F.
8075	Furnish and install ground rod 3/4" x 10'.	8 EA
8077	Furnish and install 12" vehicular traffic signal head section.	4 EA
8084	Furnish and install electrical cable - 3 conductor (No. 14 AWG).	50 L.F.
8095	Install controller and cabinet pole mount.	2 EA

C. EQUIPMENT TO BE REMOVED

All removed materials are to become property of the Contractor.

WIRING DIAGRAM

WEST OF CALVERT HIGH SCHOOL



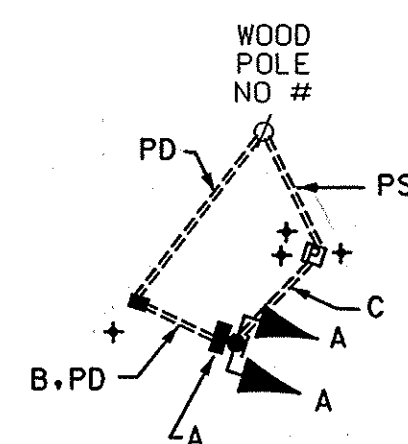
WIRING KEY
A - 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
C - (3) 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.) THHN/THWN
PD - PHONE DROP (BY SHA FORCES)
PS - PROPOSED ELECTRICAL SERVICE BY SMECO
+ - GROUND ROD

PHASE CHART

THE HAZARD IDENTIFICATION BEACON SHALL OPERATE DURING NORMAL SCHOOL HOURS.

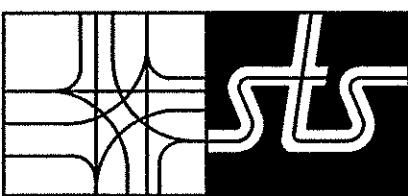
WIRING DIAGRAM

EAST OF CALVERT HIGH SCHOOL



WIRING KEY
A - 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
C - (3) 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.) THHN/THWN
PD - PHONE DROP (BY SHA FORCES)
PS - PROPOSED ELECTRICAL SERVICE BY SMECO
+ - GROUND ROD

TOD No.: AT604-27
SHA No.: CA347AS1/B51
MD 402 @ Calvert Elementary & High School



400 Crain Hwy. NW
Gaithersburg, MD 20878
Ph (410) 590-5500
Fax (410) 590-6637

PLOTTED: #DATE#
FILE: #FILE#

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 402: FROM CALVERT H.S.
TO CALVERT ELEMENTARY SCHOOL

GENERAL INFORMATION SHEET

SCALE NONE DATE 9-5-06 CONTRACT NO.

DESIGNED BY J. ALLEN COUNTY CALVERT
DRAWN BY R.C. LOGMILE 04040200.51
CHECKED BY TMS NO. H926
F.A.P. NO. TOD NO.

TS NO. 4508 DRAWING NO. 2 OF 4 SHEET NO. OF